

artdaq Utilities - Support #24231

Add init_fragment_count to bookkept parameters in DAQInterface

03/26/2020 03:01 PM - Eric Flumerfelt

Status:	Closed	Start date:	03/26/2020
Priority:	Normal	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Experiment:	-	Co-Assignees:	
Description			
init_fragment_count should be set to the number of incoming serialized art events to a given process, with the caveat that processes with identical configuration should not be counted separately.			
Examples:			
<ul style="list-style-type: none">• For an EventBuilder listening to BoardReaders, it should be zero.• For an EventBuilder receiving from another EventBuilder using BinaryNetOutput, along with zero or more BoardReaders, it should be zero• For an EventBuilder receiving from two EventBuilders in the same subsystem using RootNetOutput, it should be 1• For an EventBuilder receiving from two EventBuilders in one subsystem, a third in a different subsystem, and zero or more BoardReaders, it should be 2• For a Dispatcher receiving from four DataLoggers, it should be 4			

Associated revisions

Revision 0898c60e - 03/28/2020 11:19 AM - John Freeman

JCF: Issue #24231: smoke-tested version of init_fragment_count bookkeeping, the smoke-test being that I was able to correctly bookkeep the complicated_subsystems example

Revision 0a202c67 - 03/29/2020 11:32 AM - John Freeman

JCF: add configs specifically meant to test code changes for Issue #24231; please revert before merging into the develop branch

Revision c3a85de7 - 03/29/2020 12:01 PM - John Freeman

JCF: Issue #24231: tweak the bookkeeping so test1 passes

Revision 75bd07e6 - 03/29/2020 12:13 PM - John Freeman

JCF: Issue #24231: make sure init_fragment_count is defined for all downstream artdaq processes in issue24231_test4

Revision c51a23ea - 03/29/2020 12:21 PM - John Freeman

JCF: Issue #24231: remove print statements used for development purposes

History

#1 - 03/26/2020 03:02 PM - Eric Flumerfelt

init_fragment_count lives with the SharedMemoryEventManager configuration, e.g. daq.eventbuilder

#2 - 03/29/2020 12:34 PM - John Freeman

- % Done changed from 0 to 100

- Status changed from New to Resolved

Resolved with commit c51a23ea74b0d0bf150b127d3bd4931c7ec6d0fc on the feature/24231_bookkeep_init_fragment_count branch. I created configs for testing the five examples given above, each config with the name "issue24231_testN", N being the number of the test. One exception is test 3 since there's not yet any provision for bookkeeping intra-subsystem EventBuilder-to-EventBuilder sends; if needed, then this should be its own issue. Tests 1,2,4 and 5 looked OK as far as I understand the requirements; the corresponding runs are 3556, 3557, 3559 and 3560 in mu2eddaqXX:/home/jcfree/run_records. Just grep for "init_fragment_count" among the FHiCL documents there. One place I may be mistaken is in test 4, where I'm not certain whether the DataLogger and Dispatcher in subsystem 4 are supposed to have init_fragment_count set to 1 or 2 (they share a subsystem with an EventBuilder which has init_fragment_count set to 2).

When we're done with testing this issue, we should remember to remove the issue24231_testN configs from the simple_test_config directory.

#3 - 11/30/2020 12:33 PM - Eric Flumerfelt

- Status changed from Resolved to Closed